

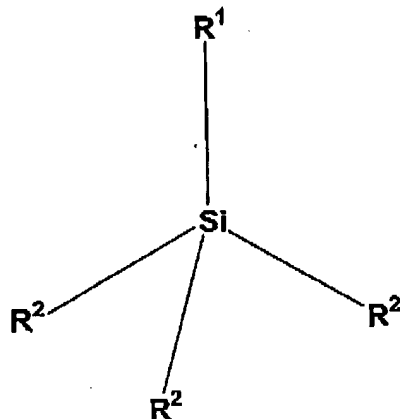
U.S. Patent Application Serial No. 09/811,106

ATMI-513

**AMENDMENTS TO THE CLAIMS**

Claims 1-57 are cancelled.

58. (new) An organosilicon precursor composition comprising,

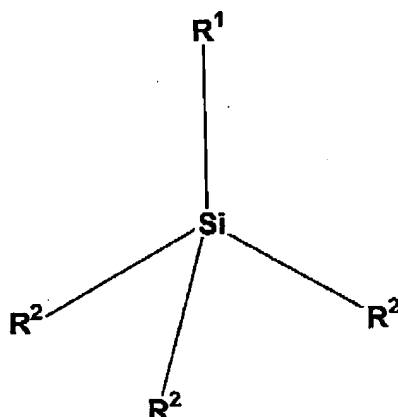
**Formula 1**

wherein

$\text{R}^1$  is ( $\text{R}^3\text{COO}^-$ ), where  $\text{R}^3$  is selected from the group consisting of, H,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl; and

each of  $\text{R}^2$  is same or different and each of  $\text{R}^2$  is selected from the group consisting of H,  $\text{C}_2$  to  $\text{C}_6$  alkene,  $\text{C}_2$  to  $\text{C}_6$  alkyne,  $\text{C}_3$  to  $\text{C}_4$  allyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  alkoxy, aryl, perfluoroaryl and  $\text{C}_2$  to  $\text{C}_6$  alkylsilane and  $\text{R}^3\text{OOC}^-$  carboxylates, where  $\text{R}^3$  is selected from the group consisting of, H,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl.

59. (new) An organosilicon precursor composition comprising:



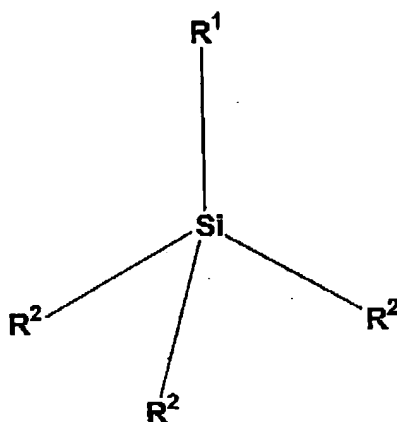
Formula 1

wherein

$\text{R}^1$  is a cleavable organic functional group, selected from the group consisting of  $\text{C}_2$  to  $\text{C}_6$  alkene,  $\text{C}_2$  to  $\text{C}_6$  alkyne,  $\text{C}_3$  to  $\text{C}_4$  allyl,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl, and  $\text{R}^3\text{OOC}^-$  carboxylate, where  $\text{R}^3$  is selected from the group consisting of, H,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl; and

each of  $\text{R}^2$  is same or different and each of  $\text{R}^2$  is selected from the group consisting of H,  $\text{C}_2$  to  $\text{C}_6$  alkene,  $\text{C}_2$  to  $\text{C}_6$  alkyne,  $\text{C}_3$  to  $\text{C}_4$  allyl,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  alkoxy, aryl, perfluoroaryl,  $\text{C}_2$  to  $\text{C}_6$  alkylsilane, and  $\text{R}^3\text{OOC}^-$  carboxylates, where  $\text{R}^3$  is selected from the group consisting of, H,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl.

60. (new) An organosilicon precursor composition comprising:



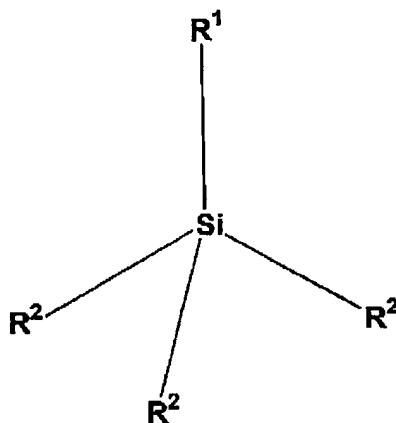
Formula 1

wherein

$\text{R}^1$  is  $(\text{R}^3\text{COO}^-)$ , where  $\text{R}^3$  is selected from the group consisting of,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl; and

each of  $\text{R}^1$  is same or different and each of  $\text{R}^2$  is selected from the group consisting of  $\text{H}$ ,  $\text{C}_2$  to  $\text{C}_6$  alkene,  $\text{C}_2$  to  $\text{C}_6$  alkyne,  $\text{C}_3$  to  $\text{C}_4$  allyl,  $\text{C}_4$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  alkoxy, aryl, perfluoroaryl,  $\text{C}_2$  to  $\text{C}_6$  alkylsilane, and  $\text{R}^3\text{OOC}^-$  carboxylates, where  $\text{R}^3$  is selected from the group consisting of,  $\text{H}$ ,  $\text{C}_1$  to  $\text{C}_6$  alkyl,  $\text{C}_1$  to  $\text{C}_6$  perfluoroalkyl,  $\text{C}_1$  to  $\text{C}_6$  carboxylate, aryl and perfluoroaryl.

61. (new) An organosilicon precursor composition comprising:



Formula 1

wherein

$R^1$  is ( $R^3COO^-$ ), where  $R^3$  is selected from the group consisting of,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  perfluoroalkyl,  $C_1$  to  $C_6$  carboxylate, aryl and perfluoroaryl; and

each of  $R^2$  is same or different and each of  $R^2$  is selected from the group consisting of  $H$ ,  $C_2$  to  $C_6$  alkene,  $C_2$  to  $C_6$  alkyne,  $C_3$  to  $C_4$  allyl,  $C_4$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  perfluoroalkyl,  $C_1$  to  $C_6$  alkoxy, aryl, perfluoroaryl,  $C_2$  to  $C_6$  alkylsilane, and  $R^3OOC^-$  carboxylates, where  $R^3$  is selected from the group consisting of,  $H$ ,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  perfluoroalkyl,  $C_1$  to  $C_6$  carboxylate, aryl and perfluoroaryl.